

Application No.: 09/828,225

Docket No.: 20386-00295-US

AMENDMENTS TO THE ABSTRACT

Please substitute the following paragraph(s) for the abstract now appearing in the currently filed specification:

A process chamber is placed in connection with a fluidized bed reactor for utilizing internal or external circulation of solid material or both in heat transfer purposes. ~~Said~~ The process chamber is located inside the furnace of a circulating fluidized bed reactor adjacent to at least one of the furnace walls. The interior of ~~said the~~ process chamber is provided with heat exchangers ~~means~~ for heat transfer from the solid material to a heat transfer medium inside the heat exchangers ~~means~~. The process chamber ~~comprises~~ includes a top closed barrier wall forming the roof of the process chamber, wherein the inlet ~~of~~ for introducing the solid material into the process chamber is ~~arranged to~~ provided in the lower part of the wall of the process chamber and the outlet ~~of~~ for carrying the solid material out of the process chamber is ~~arranged to~~ provided in the upper part of the wall of the process chamber. An inlet chamber is provided inside the furnace of the circulating fluidized bed reactor prior ~~Prior to the said process chamber in the direction of the flow of said the solid material an inlet chamber is provided inside the furnace of the circulating fluidized bed reactor~~ for directing the solid material to the inlet of the process chamber.